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1	2283	wire and (623/1.\$.ccls. or	USPAT;	2003/02/27
		623/23.\$.ccls.)	US-PGPUB;	15:39
			EPO; JPO;	
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2	134	(wire and (623/1.\$.ccls. or	USPAT;	2003/02/27
		623/23.\$.ccls.)) and wire with thread	US-PGPUB;	15:56
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3	1487	(606/191,198).CCLS.	USPAT;	2003/02/27
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4	671	(623/1.2,1.16,1.13,2.38,2.4,2.40,1.20).CCL	SUSPAT;	2003/02/27
_			US-PGPUB;	16:18
			EPO; JPO;	
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1       US       3593342       USP19710720 6       [45] Sept. 10,         2       US       3623921       USP19711116 6       [54]       Bill E DUCT ENDOPROTHESIS         3       US       3663926       USP19720815 5       [56]       Inventor:       Waiter Hartenbach, Schwalbacher, Str., 62 Wiesbaden, Germany       Surgical Drains, Catalogue of Cutheters & A.         5       US       37262284       USP19730017 9       [21]       Appl. No: 297,746       Surgical Drains, Catalogue of Cutheters & A.         6       US       3765032       USP19740108 11       [30]       Foreign Application Priority Data       Dist Erection and Laboratories, Inc., 1960         9       US       3833940       USE 19740108 11       [31]       Int. Cl	Documen	t I K Sou Lesue Da Page		med states I atent (17)	111 3,833,94(
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<ul> <li>G US 3745995 USP19730717 9</li> <li>G US 3745995 USP19730717 9</li> <li>G US 3765032 USP19731016 6</li> <li>G US 378366 USP197410730 4</li> <li>US 383360 USP19741203 17</li> <li>I US 3852045 USP19741203 17</li> <li>I US 3852045 USP19741203 17</li> <li>I US 3866248 USP19750506 6</li> <li>I US 3866248 USP19750506 6</li> <li>I US 3866248 USP19750508 5</li> <li>I US 3866248 USP19750508 5</li> <li>I US 3866248 USP19750508 5</li> <li>I US 3866249 USP19750508 5</li> <li>I US 3866249 USP19750508 5</li> <li>I US 3866248 USP19750508 5</li> <li>I US 3866249 USP19750508 5</li> <li>I US 3866249 USP19750508 5</li> <li>I US 386760 USP19750508 5</li> <li>I US 3896806 USP19750523 6</li> <li>I US 3896807 USP19770602 7</li> <li>I US 3906550 USP19770602 7</li> <li>I US 3906573 USP19770802 7</li> <li>I US 4015607 USP19770802 7</li> <li>I US 4036703 USP19770802 7</li> <li>I US 4036703 USP19770802 7</li> <li>I US 4036703 USP19770802 7</li> <li>I US 4036666 USP197802218</li> <li>I US 4064667 USP197802218</li> <li>I US 4068071 USP19770802 8</li> <li>I I I I I I I I I I I I I I I I I I I</li></ul>	US 3726	284 USP19730410 8	[22]	• •	ries, American Cystoscope Makers, Inc., 1960, page
<ul> <li>[30] Fordgn Application Priority Data 9 Urs 3783866 USP 19740730 4</li> <li>[31] Urs 3826241 USP 19740730 4</li> <li>[32] Urs 3833840 USP 19740730 4</li> <li>[32] Urs 3833840 USP 19741119 4</li> <li>[33] Urs 386248 USP 19741119 4</li> <li>[34] Urs 3881199 USP 19750518 5</li> <li>[35] Urs 3862648 USP 19750513 15</li> <li>[36] Fred d Sarch. 2014 1128/34 Ki 128/34 Ki</li></ul>	US 3745	995 USP19730717 9	· · ·		Bile Duct Tubes, Pearse Type, Vitallium Surgical An
8       US 3783868       USP19740108 11         9       US 3826241       USP19740730 4         10       3826241       USP19740730 4         11       US 383340       USP19740730 4         12       US 383340       USP19740730 4         13       US 3862248       USP19741203 17         14       US 386248       USP19750218 5         15       US 386248       USP19750506 6         15       US 386266       USP19750506 7         16       US 396650       USP19750508 1         17       US 396650       USP19750508 1         18       US 396650       USP19750622 4         19       US 19760928 11       13         10       US 3966560       USP19770802 7         10       US 4038073       USP19770802 7         12       US 4062834       USP19770802 7         12       US 406660       USP19770802 7         12       US 406664567       USP19770802 7         12       US 406660 4       USP19770802 8         12       US 4066607       USP19770802 7         13       US 4066607       USP19770802 7         14       US 4066607       USP19770802 9         15	US 3765	032 USP19731016 6	·		phances Catalog, Austenal Laboratories, Inc., New York-Chicago, 1948, page 23.
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12       US       3835043       USE 13761203 1       10	55555655555		[58]	Field of Search	
14       US 3881199       USP 19750506 6       Image: Constraint of the bill duct and the canula affect and the affect and t	222/2222222				
14       US 388199       USP19750506	27,000,000		[56]		CERTINIA for introduction into the hile duct and having
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16       US 3896806       USP 19750729 6       34348.869 3/969 Dividen means for maxing against longitudinal displace 3/969 Dividen means for maxing against l	2000000 T T T T T		2,560 2,587	1,915 7/1951 Bamberger 128/350 R	taching a drain hose to the cannuls and also as a
12       US 396330       US 19730923 0       3,515,12       4/1970 Gurchat       128/348 x         128       US 3964473       USP 19760622 4       USP 19760622 4       5       5         13       US 3982543       USP 19760622 4       FOREION PATENTS OR APPLICATIONS       5       5         129       US 4015607       USP 19770405 5       5       128/348 x       128/348 x       5         20       US 4015607       USP 19770405 5       5       128/348 x       128/348 x       128/348 x       128/348 x       128/348 x       5       0 annula within a bit duct.       6       128/348 x	3538953882		3,434	,869 3/1969 Davidson	. IDEBIS for insuring against longitudinal disalagement
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19       US 3982543       USP 19760928 11       Canula within a ble duct.         20       US 4015607       USP19770405 5	17000100000				type connector that enables easier implantation of the
20       US 4015607       USP 19770405 5         21       US 4038703       USP 19770802 7         22       US 4041931       USP 19770816 4         23       US 404404       USP 19770830 9         24       US 4062834       USP 19771213 6         25       US 4064567       USP 19771227 6         26       US 4073999       USP 1977080214 12         27       US 4074366       USP 19780221 8         28       US 4080666       USP 19780328 4         29       US 4089071       USP 19780016 11         30       US 4097935       USP 19780022 6         31       US 4108161       USP 19790220 4         33       US 4153953       USP 19790515 6			115	942 11/1969 Denmark 128/348	cannula within a bile duct.
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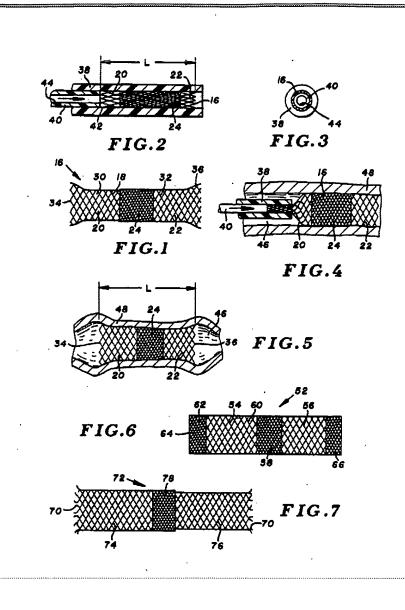


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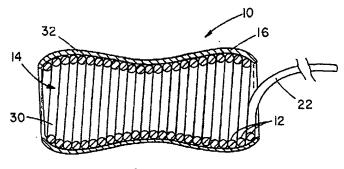
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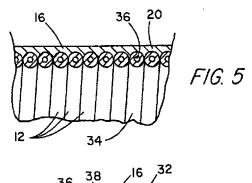
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132	US	4969902	USP	19901113	7	II
133	US	4969458	USP	19901113	10	I:
134	US	4976738	USP	19901211	5	P
135	US	4978355	USP	19901218	6	P
136	US	4986809	USP	19910122	12	P
137	ΨS	4988359	USP	19910129	5	F
138	US	4990163	USP	19910205	14	M
139	US	4997445	USP	19910305	7	M
140	US	5002579	USP	19910326	17	P
141	US	5007926	USP	19910416	6	E:
142	US	5011486	USP	19910430	11	C
143	υs	5013324	USP	19910507	11	Р
144	υs	5015253	USP	19910514	7	N
145	US	5019102	USP	19910528	10	A:
146	US	5019090	USP	19910528	13	R
147	US	5019085	USP	19910528	6	Aj
148	US	5021063	USP	19910604	6	J
149	US	5030236	USP	19910709	14	Aj
150	US	5030233	USP	19910709	11	P
151	US	5032129	USP	19910716	4	A
152	บร	5035713	USP	19910730	9	S
153	US	5035712	USP	19910730	8	S
154	υs	5037442	USP	19910806	7	F
155	υs	5041126	USP	19910820	11	Е:
156	US	5049157	USP	19910917	7	R
157	US	5059211	USP	19911022	7	Al
158	US	5061288	USP	19911029	7	D
159	US	5061275	USP	19911029	12	S
	υs	5064435	UEF	19911112	9	2
161	υs	5078736	USP	19920107	10	M
162	US	5084064	USP	19920128	6	S
163	US	5089006	····	19920218		В 🔔

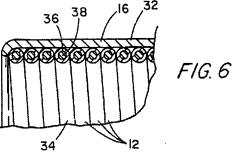


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291 U	JS	5443510	USP	19950	822	5	P
292 U	JS	5443508	USP	19950	0822	12	S
293 U	JS	5443500	USP	19950	822	6	I:
294 1	JS	5443498	USP	19950	822	12	V.
295 1	JS	5443497	USP	19950	0822	9	Pi
222200000000000000000000000000000000000	JS	5443496	USP	19950	0822	10	I:
\$232532222222222	US	5443495	USP	19950	0822	10	P
20112202522252	US	5443477	USP	19950	0822	17	A
20022030200000	US	5449382		19950		9	м
20000000000000000000000000000000000000	US	5453090		19950		6	M
200000000000000000000000000000000000000	US	5456724		19951			L
	US	5456713		19951		19	E
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1007-10020000	US	5458653		19951		8	P
	US	5458615		19951		; <del>-</del>	S
500000000000000	US	5462781		19951		20	S.
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2002203000000	US	5464449		1995.	-	12	ı. S
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200200000000000000000000000000000000000	US	5476880	\$ &	1995.			o s
	US	5476508		1995		11	
222222222222222222	US	5476505		1995.		5	C
201212020202020	US	5476471		1995.		10	D
200000000000000000000000000000000000000	US	5478349		1995.		10	Ρ.
201112202202	US	5480437		1996(		9	P
5555555555555	US	5480423		1996(		16	P
317	US	5484444		1996(		7	D١
318	US	5489295		1996(		15	E:
12110012000000	US	5496372		1996(		54	H.
320	US	5500013		19960		12	В
321	US	5501706	USP	1996(	3326	20	M
322	US	5504300	USP	1996(	0402	10	0
323	US	5503636	USP	1996(	0402	7	S
324 1	US	5507771	USP	19960	0416	7	S
325 1	US	5507767	USP	1996(	0416	9	Sj
326	US	5509933	USP	19960	0423	18	M
327 1	ÜS	5512291	USP	19960	0430	14	M
328	US	5514182	USP	1996(	0507	8	P
329 1	US	5514178	USP	19960	0507	9	P
l h	US	5514176	US P	1990	0507	3	L
331 1	ÚS	5522896	USP	19960	0604	9	в.
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210 US 5217494 USP 19930608 9 T	
211 US 5217493 USP19930608 5 I	
212 US 5219363 USP19930615 4 B	
213 US 5226913 USP 19930713 11 M	
214 US 5236447 USP 19930817 15 A	
215 US 5242451 USP19930907 8 I	
216 US 5246461 USP19930921 11 F	
217 US 5246445 USP 19930921 13 D	
218 US 5258030 USP19931102 7 P	
219 US 5258029 USP19931102 6 M	
220 US 5258020 USP19931102 9 M	
221 US 5266073 USP19931130 6 A	
2222 US 5269802 USP19931214 8 P	
223 US 5271736 USP19931221 8 C	
224         US         5171612         USF13040104         18         2           225         US         5279831         USP19940118         7         H;           226         US         5282861         USP19940201         11         0;	
226 US 5282861 USP19940201 11 Oj	
227 US 5282860 USP19940201 8 S	
228 US 5282824 USP19940201 8 P	
229 US 5282823 USP 19940201 9 I	
230 US 5290305 USP19940301 31 Aj	
231 US 5290295 USP1994030111 I	
232 US 5292331 USP19940308 8 E	
233 US 5292321 USP19940308 11 T.	
234 US 5304200 USP19940419 12 W	
235 US 5306294 USP19940426 6 S	
236 US 5314492 USP19940524 14 C	46 156 136 136 136 136 136 136 136 136 136 13
237 US 5314475 USP 19940524 4 M	
238 US 5314473 USP 19940524 7 P	
239 US 5314472 USP 19940524 9 Vi	
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241 US 5316023 USP 19940531 16 M	
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3	US 4731073		(Wallsten
4	US 4732152	USP19880322 10 I	et al.), the entireties of which are hereby expressly incorporated herein by reference. As shown in the figures of this patent application, this
5	US 4850999	USP 19890725 8 H	particular
6	US 4875480	USP 19891024 7 I	
7	US 5133732	USP 19920728 16	
8	US 5211661	USP 19930518 12	18. These thread elements or wires 18 are formed of metal, such as an
9	US 5290305		alloy of cobalt, chromium, nickel or molybdenum, wherein the alloying residue is iron.
10	US 5383892		and cobait, chromium, micker of morybdenum, wherein the alloying residue is from.
11	US 5387235	USP 19950207 41	One specific example of a commercially available alloy which may is usable to
12	US 5397359	USP 19950314 9 1	
13	US 5456713		form the wires 18 of the stent 14 is Elgiloy (The Elgiloy Company, 1565
14	US 5480437	USP 19960102 9 1	Fleetwood Drive, Elgin, Ill. 60120). The WITCH 18 of this stent 14 are arranged in helical configuration about a common longitudinal axis LA. A
15	US 5522894		number of the wires 18 are positioned in substantially parallel relation to
16	US 5562726	i i in the second s	one
17	US 5562697		another, but are axially displaced relative to each other. By such
18	US 5591228	USP 19970107 27 1	arrangement, some of the vires 18 are wound in a first helical direction, while
19	US 5630801	USP 19970520 14	
20	US 5649949	USP1997072214	
21	US 5653727	USP1997080514	on opposite sides of adjacent ones of the <u>sires</u> wound in the first helical
22	US 5665119	USP19970909 4	direction so as to form a helically braided wire stent as shown in the Figures.
23	US 5676697	USP19971014 23	
24	US 5693089	USP19971202 40 1	
25	US 5693084	USP19971202 42	configuration which is self-expanding and biased to it's radially expanded
26	US 5713948	USP1998020313	diameter D. sub.2. However, this stent 14 may be radially compressed to a
27	US 5718159	USP 19980217 16	smaller diameter D.sub.1 and radial constraint, as may be applied by the surrounding wall of the tubular delivery catheter 22 shown in FIG. 1, may be
28	US 5720776	USP19980224 46	
29	US 5746766	USP 19980505 22	D.sub.1). Thereafter, when the radial constraint is removed from the stent
30	US 5755777	USP 19980526 31	14,
31	US 5769870	USP19980623 21	the stent 14 will resiliently spring back to its radially expanded diameter D.sub.2. The individual, helically wound willes 18 of this particular
32	US 5776186	USP1998070713	
33	US 5814006	USP19980929 5	stent 14 move and articulate such that the angular dispositions of the wires
34	US 5815904	USP1998100615 1	
35	US 5824059	USP19981020 9	18, relative to one another, will change radial expansion and compression of the stent 14. Also, the longitudinal length of the stent 14 will increase as
36	US 5824053	USP19981020 11	the stent 14. Also, the longitudinal length of the stent 14 will increase as
37	US 5843163	USP19981201 8	the stent 14 is radially compressed toward its radially compact configuration
38	US 5843162	USP 19981201 64	
39	US 5873906	USP19990223 27	D.sub.1, and such length will shorten as the stent 14 expands toward its
40	US 5919225	USP1999070626	radially expanded configuration D.sub.2. Thus, the optional PTFE coating 20
41	US 5928280	USP1999072713	
	US 5928279	USE19090717-15	
43	US 5968088	USP1999101917	novement
1.			of the individual wires 18 without cracking or degrading.

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